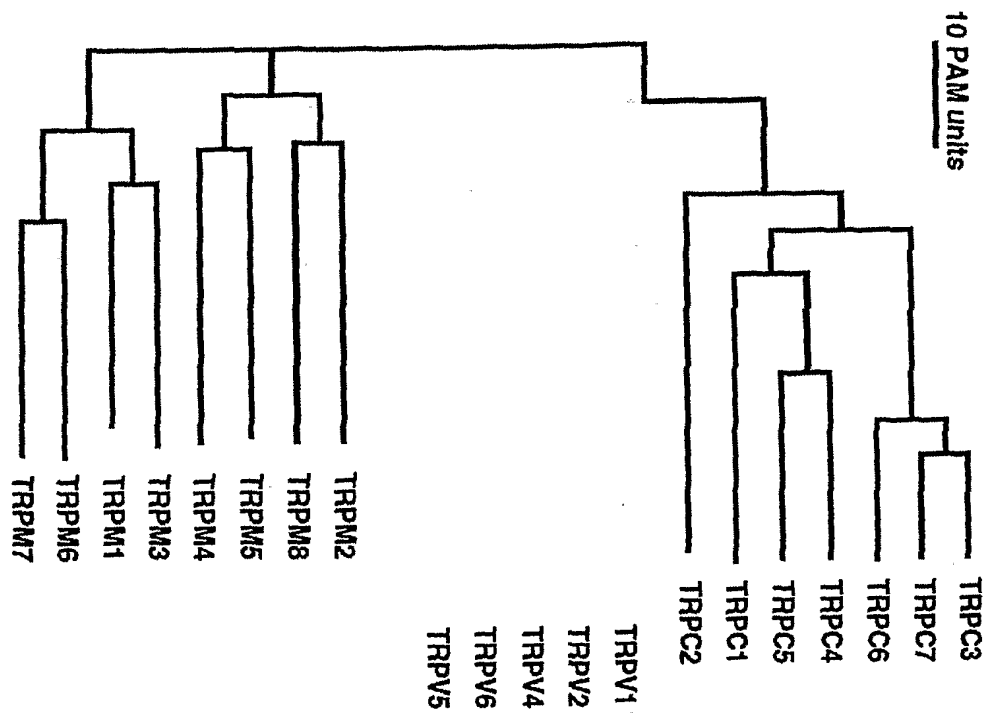


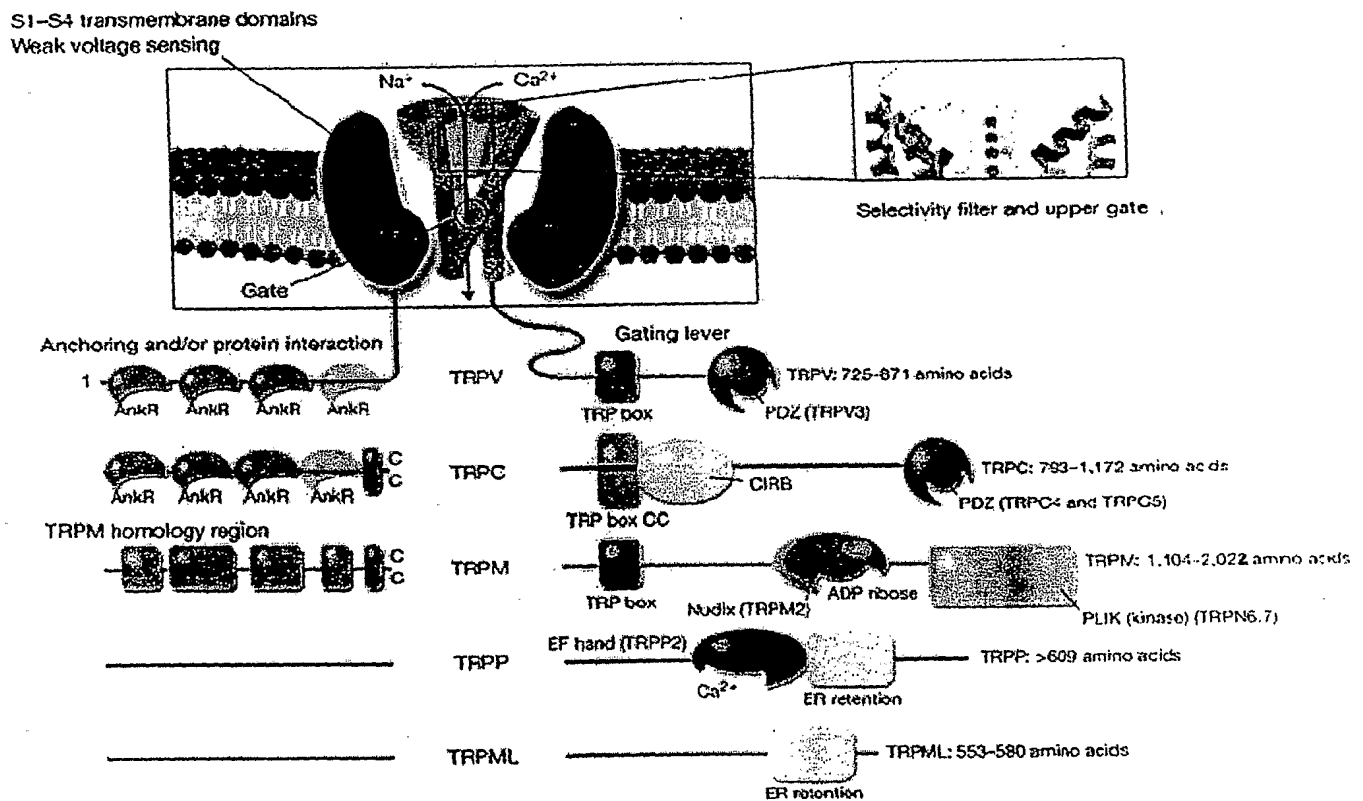
1/14

Figure 1



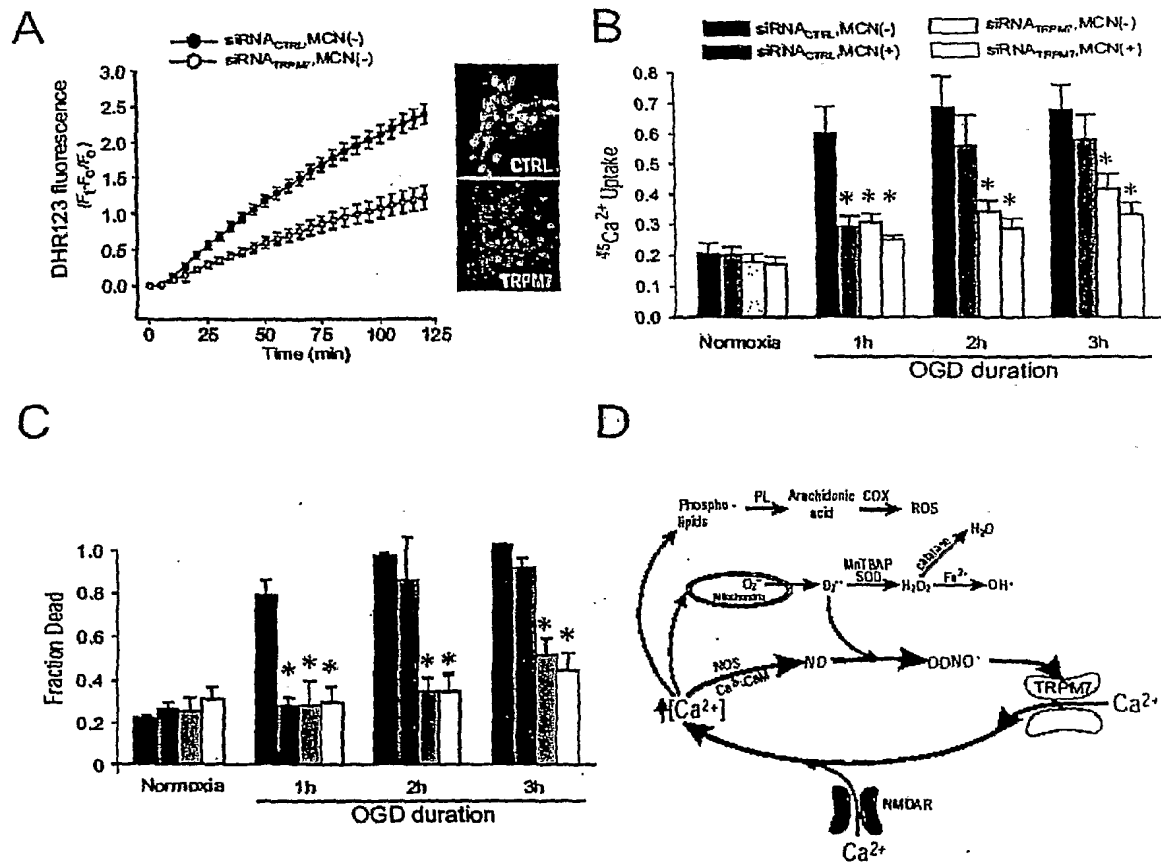
2/14

Figure 2



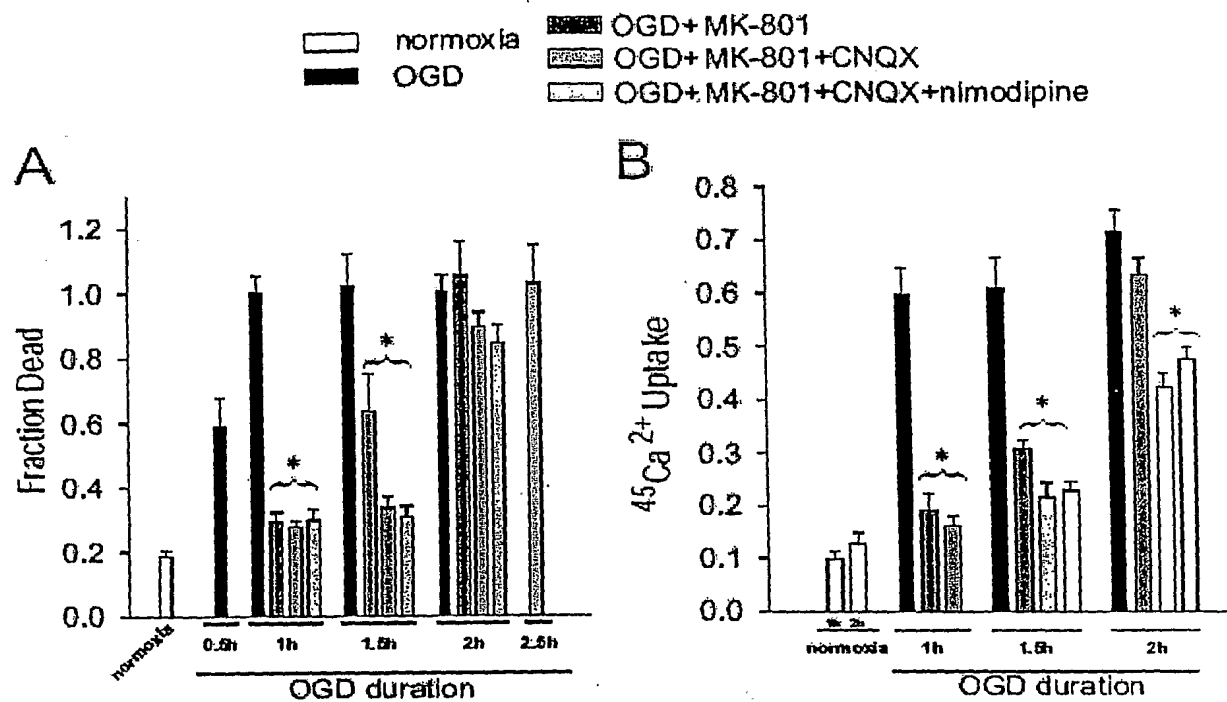
3/14

Figure 3



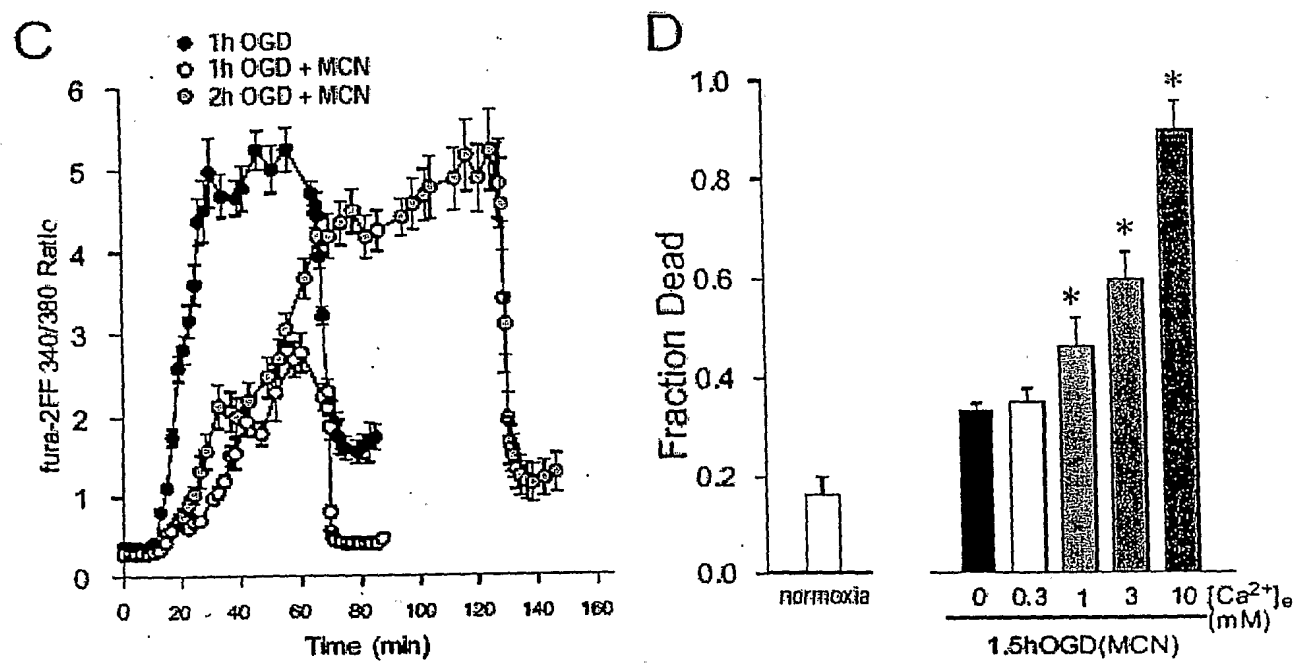
4/14

Figure 4



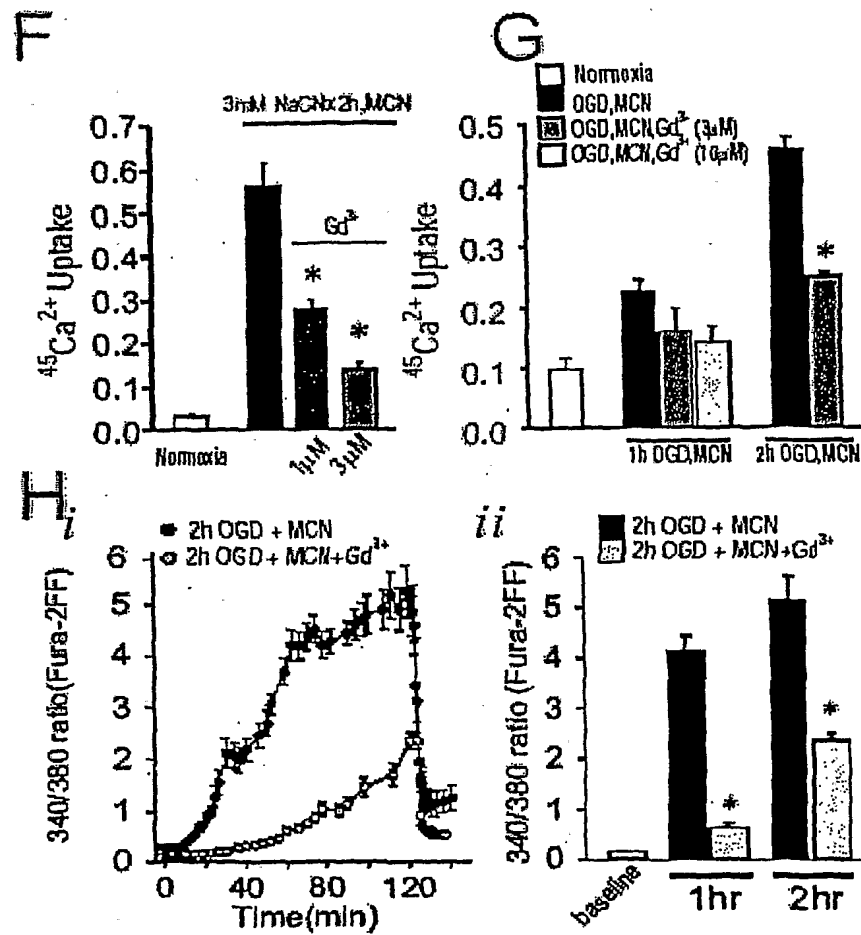
5/14

Figure 5



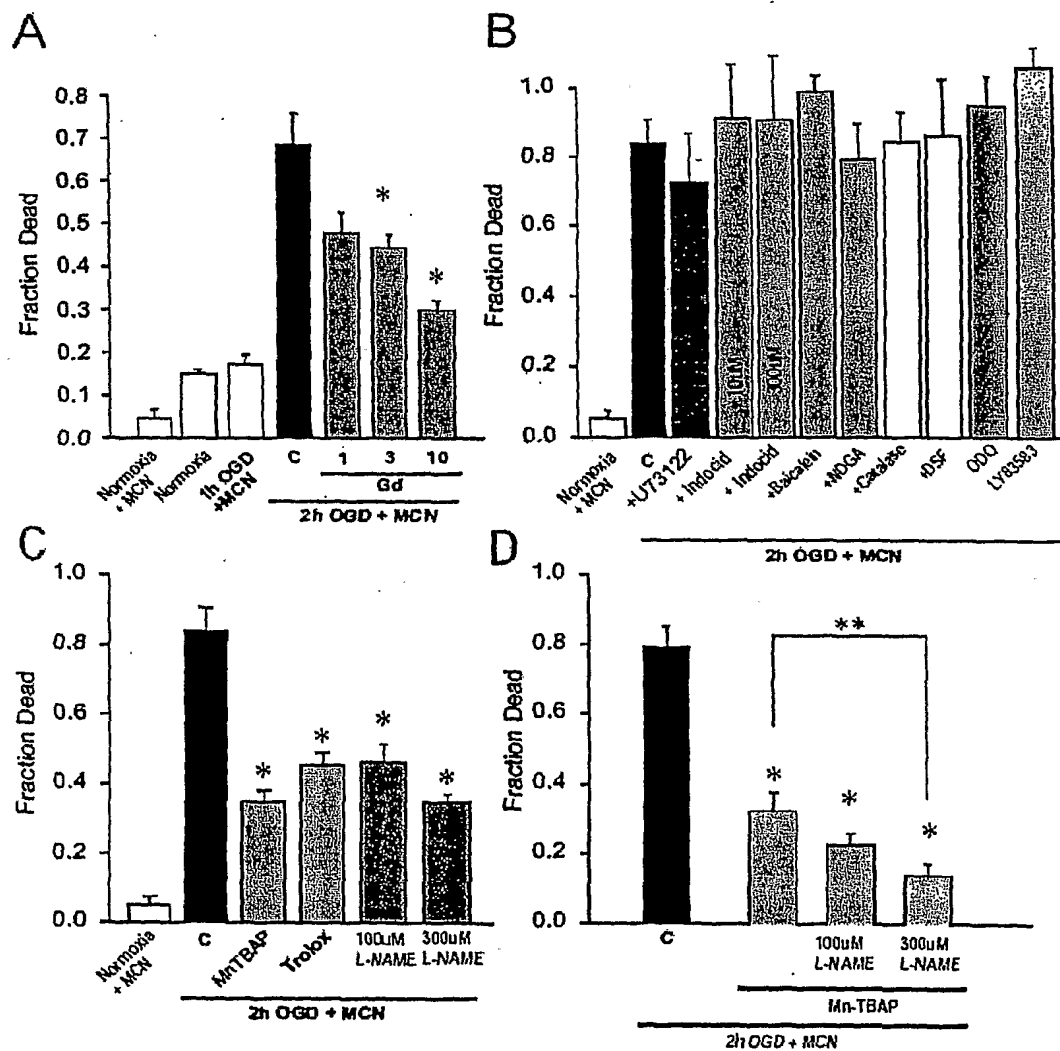
6/14

Figure 6



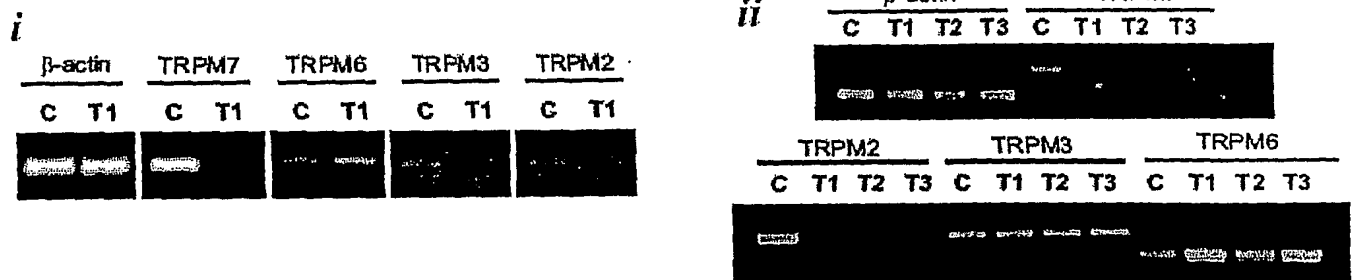
7/14

Figure 7



8/14

Figure 8





9/14

Fig. 9A Titration: TRPM7 peptide/ RIM2 d1

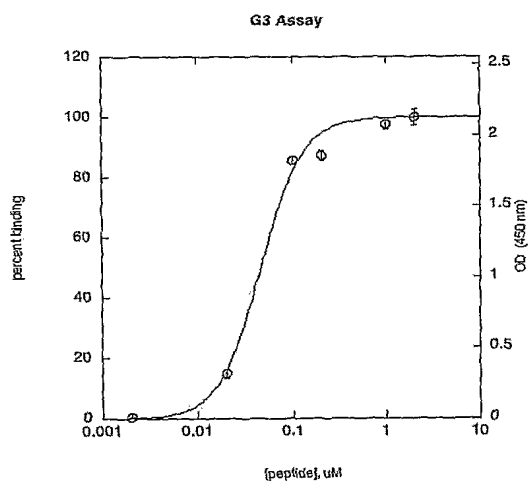


Fig. 9C Titration: TRPM7 peptide/ ZO-1 d2

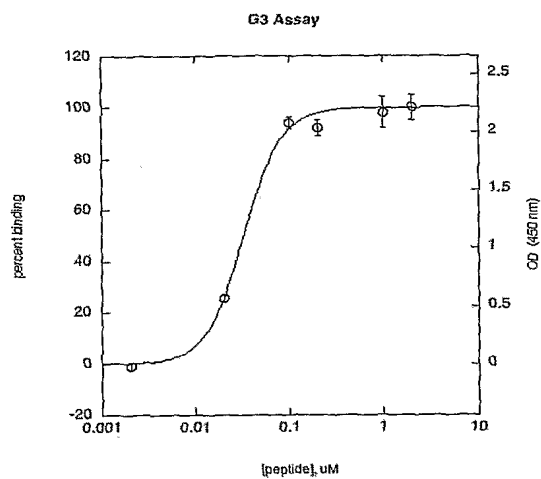


Fig. 9B Titration: TRPM7 peptide/ INADL d3

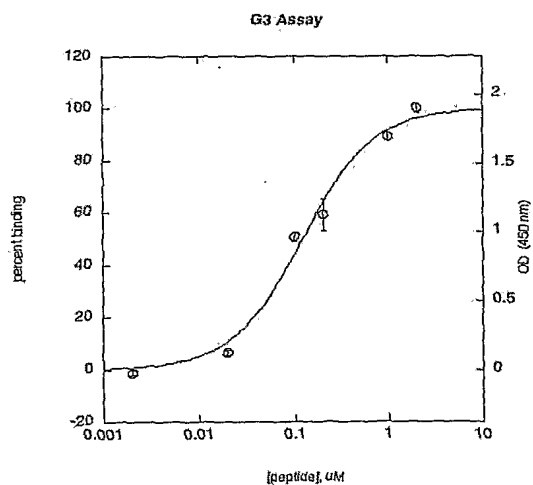
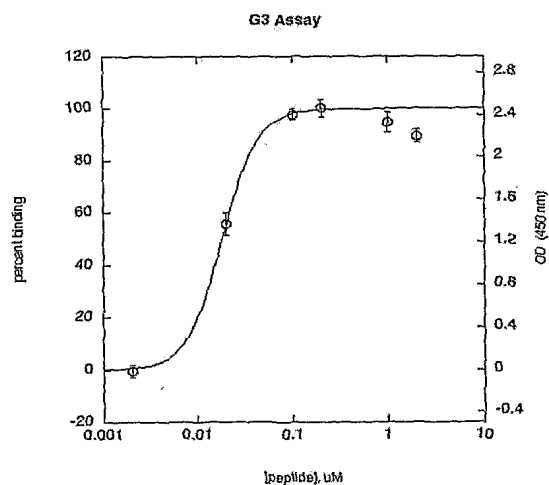


Fig. 9D Titration: TRPM7 peptide/ Par3 d3



10/14

Figure 10A

Titration: Peptide 1829/ ZO-1 d2

G3 Assay

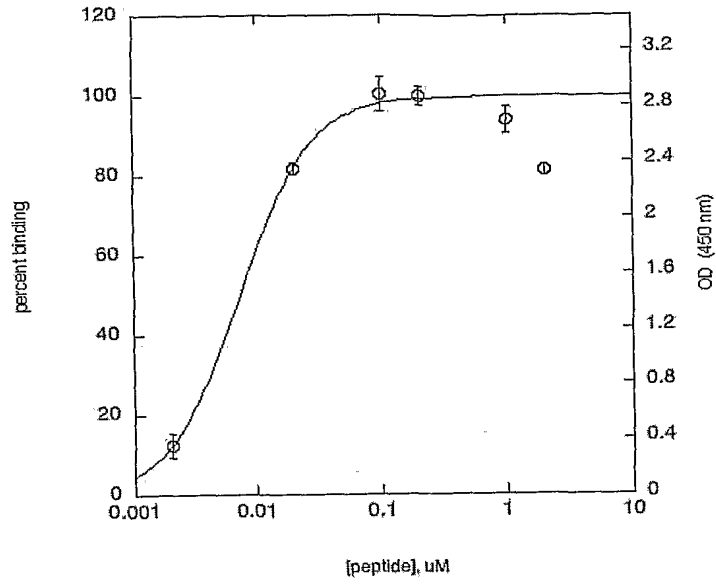
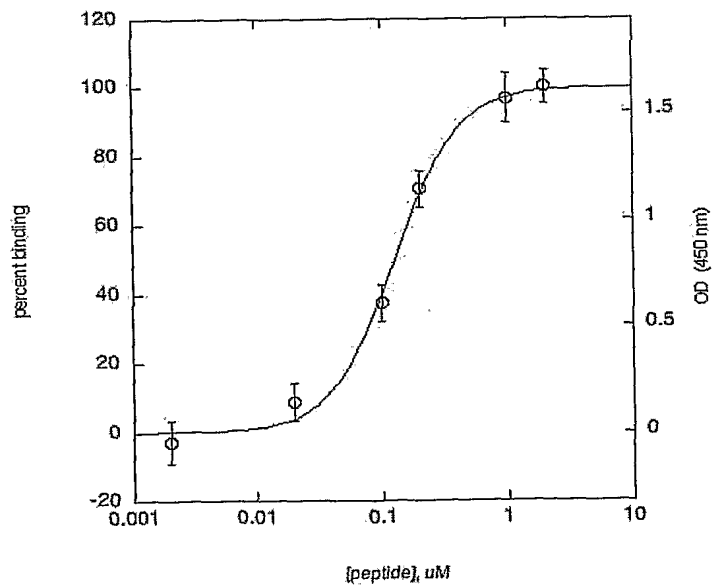


Figure 10B

Titration: Peptide 1839/ INADL d3

G3 Assay



11/14

**Layout of construct**

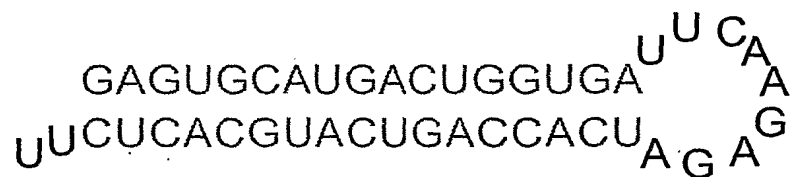
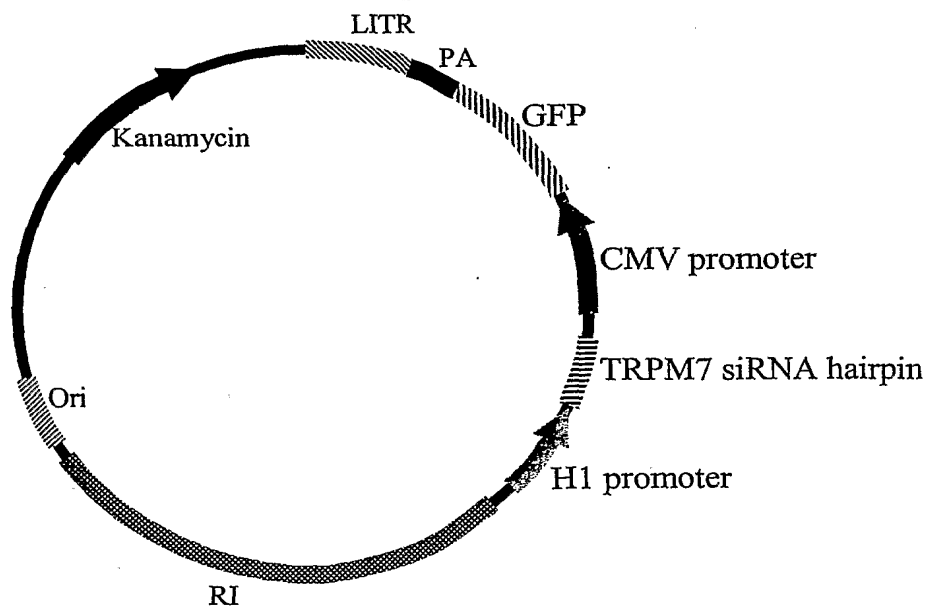
Enzyme site (EcoRI) – H1 promoter – enzyme site (BamHI) – sense siRNA – loop – antisense siRNA – termination sequence – enzyme site (HindIII)

**Sequence of Construct**

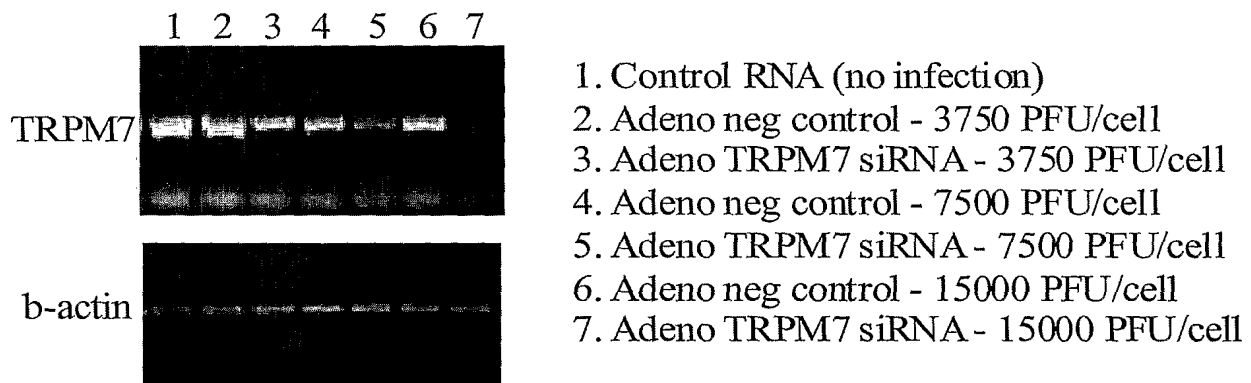
GAATTCATATTTGCATGTCGCTATGTGTTCTGGGAAATCACCATAAACGTGAAATGTCTTT  
 GGATTTGGGAATCTTATAAGTTCTGTATGAGACCACTCGGATCCGAGTGCATGACTGGTG  
 AATTTCAAGAGAATTCACCAGTCATGCACTCTTTTTGGAAAAGCTT

**siRNA Hairpin sequence**

GAGUGCAUGACUGGUGAAUUUCAAGAGAAUUCACCAGUCAUGCACUCUU

**TRPM7 siRNA hairpin in pAdTrack vector****FIGURE 11**

12/14

**FIGURE 12**

13/14

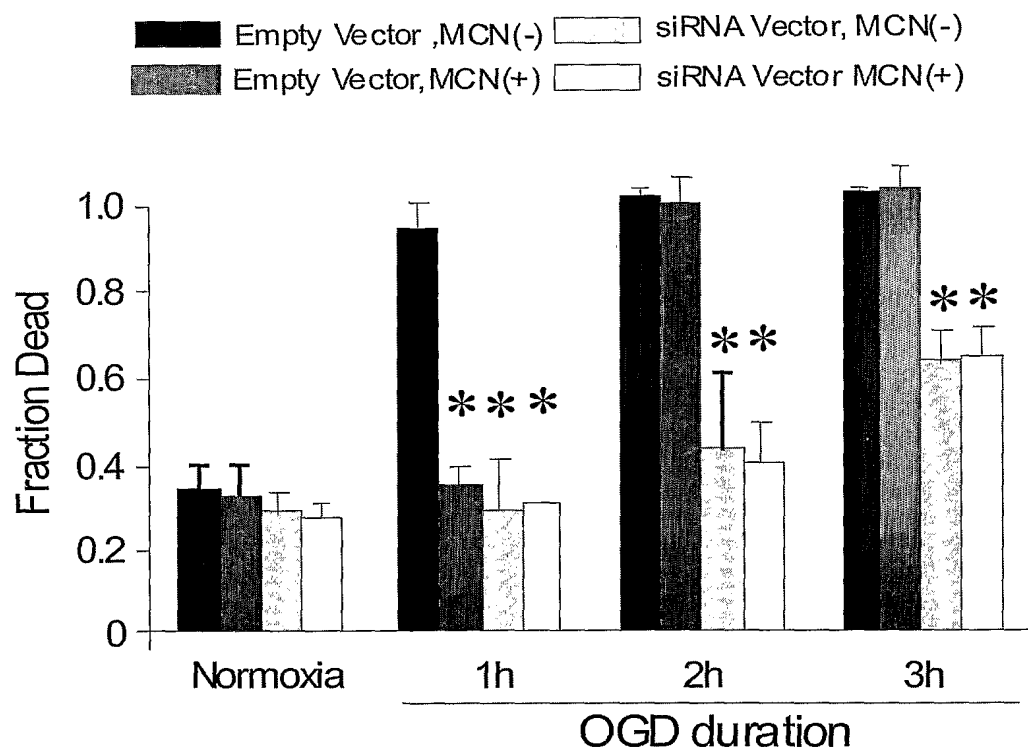
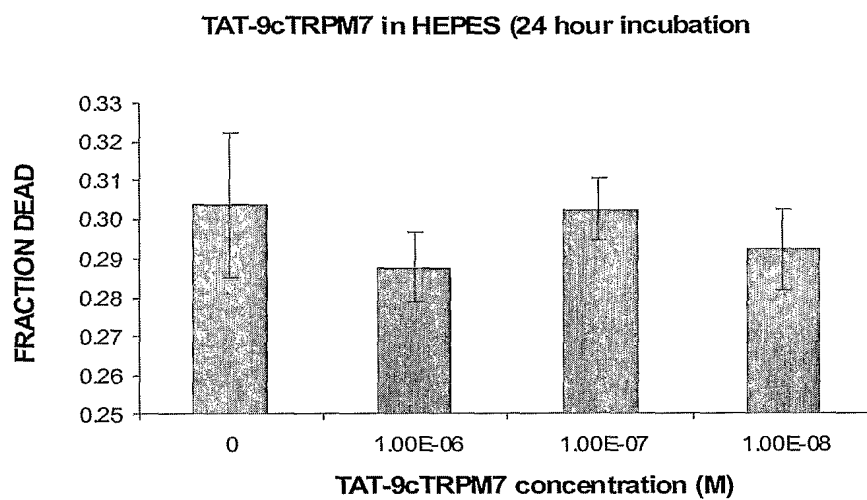


FIGURE 13

14/14

A



B

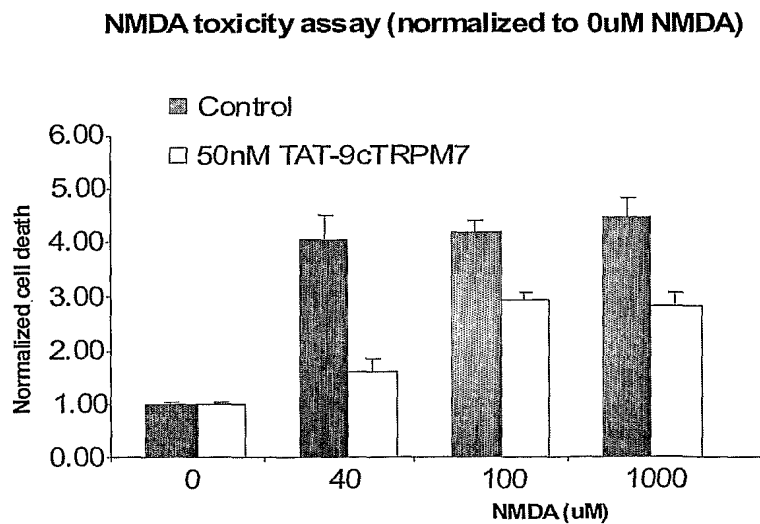


FIGURE 14